

## **ABSTRACT**

A lighting system having a power supply and at least one luminaire. The power supply includes a power supply input to receive a first signal having a first frequency and a circuit for converting the first signal to a second signal. The power supply also includes  
5 at least one power supply output to output a second signal having a substantially constant current and a second frequency distinctly higher than the first frequency. The luminaire includes a lamp coupled to a lamp driver circuit, which has an input for receiving the output signal from the power supply and which is configured to use the received output signal to operate the lamp. The lamp driver input and the power supply output may be  
10 connected by a flexible cable.